

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000689**Date Inspected:** 19-Jun-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 0**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 12**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai

Quality Control Contact:	ABF Paint Supervisor William (Bill) Oak			Quality Control Present:	Yes	No
Material transfer:	Yes	No	N/A	Sampled Items:	Yes	No N/A
Stock Transfer:	Yes	No	N/A	OK to Cut:	Yes	No N/A
Rebar Test Witness:	Yes	No	N/A	Delayed/Cancelled:	Yes	No N/A
Other:	Surface Preparation and Coatings Application					
Bridge No:	34-0006			Component:	OBG L2W, Misc. Metal	
Bid Item:	77,78,79,80			Lot No:	B226	

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Donald Jordan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

The following inspections were performed by Caltrans QA Coatings Inspector Jordan, American Bridge/Fluor Enterprises, a JV (ABF) Paint Supervisors William (Bill) Oak and Don Walton, ABF QC Zhou Qun Song (Joe), ABF QC David Duon, ABF QC Shi Zhaoyuan (Stone), ABF QC Zhou Wei, ABF QC Wei Chang Yun, ABF QC Sun Xiong, International Paint (IP) Onsite Technical Services Engineer (OTSE) Peng Zi Li, IP OTSE Alpha Chen, Zhenhua Port Machinery Company, LTD (ZPMC) QC Manager Xia Yong, ZPMC QC Zhang Diang, ZPMC QC Dong Yao Fei and ZPMC QC Guo Wan Li, ZPMC QC Xie Yong Gang, ZPMC QC An Ming, ZPMC QC Dong Ji Fang and ZPMC QC Xia Yu Juan.

All Notices of Inspection and Quality Control (QC) Inspection reports signed by Mr. Jordan on this date identify receipt of the documentation and are not intended to be identified as acceptance or rejection of the work performed.

OBG Lift 2W

Caltrans QA Coatings Inspectors received Notices of Inspection to attend joint inspections with ABF and ZPMC QC for surface preparation by abrasive blasting and primer coat application on OBG L2W internal and external weld seam joint. Surface rusting was visible on the abrasive blasted areas. After looking at the abrasive blasted

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surfaces it was pointed out to ABF QC personnel by Caltrans QA Coatings Inspector Jordan that the base metal did not meet the Society for Protective Coatings (SSPC) SP10 Near White Metal Contract requirements. ZPMC was informed by ABF QC that further abrasive blasting was required. The contractor began performing the repairs as directed by ABF QC personnel.

Miscellaneous Metal

Caltrans QA Coatings Inspectors received Notices of Inspection to attend joint inspections with ABF and ZPMC QC for finish (mist) coat application on 3 bike path components and 1 counterweight segment. Cure tests were performed according to the requirements in the Contract Special Provisions, the Approved As Noted Paint Quality Work Plan and the appropriate standards referenced in those documents. The Pencil Hardness test was acceptable. The Quarter Rub test was acceptable. The Solvent Rub (MEK Rub) test passed.

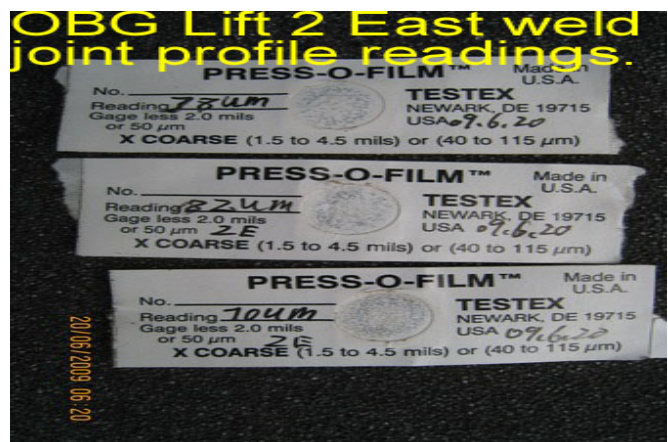
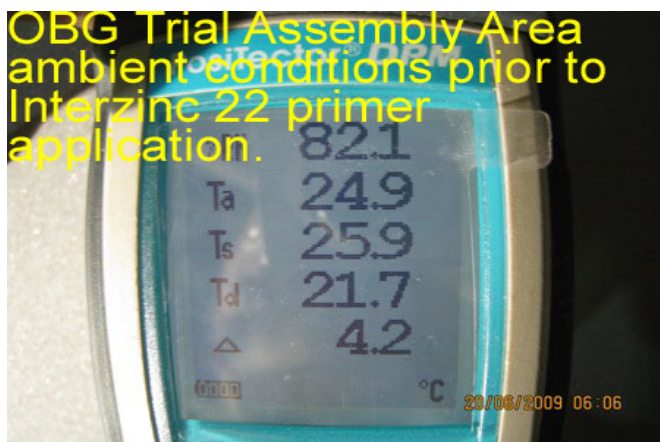
Adhesion Tests were performed. The dollies were pulled under the supervision of the above listed QA and QC personnel. The pull tests were acceptable. The results exceeded the contract requirement of 4Mpa minimum. Dry Film Thickness readings (DFT's) were taken according to SSPC PA-2. The dft's were recorded by ZPMC QC personnel. Taking of the readings were not witnessed by Caltrans QA Coatings Inspectors due to multiple inspections being scheduled at this time.

Residual Chlorides (soluble salts) tests were performed on the Interzinc 22 primer to insure the zinc salt level was below the contract required maximum. The test results showed that the surface was acceptable to be coated with Interfine 979 finish coat. The highest registered reading of salts contamination was below the contract maximum of 10 micrograms per square centimeter. The surfaces were clean and dry. Dry film thicknesses (dft) readings were within the specified range per contract. The contract required cure tests were performed on the Interzinc 22 primer and found to be acceptable. The ambient conditions were within the specified ranges of contract requirements for coating application. The contractor was allowed to proceed with finish (mist) coat application.

Paint Samples

Caltrans QA Coatings Inspectors received a Notice of Inspection to pull samples of new batches of coating to be sent to the various Caltrans labs for acceptance testing. Caltrans QA Coatings Inspector Jordan informed Caltrans Structural Materials Representative (SMR) Skyler Guest that a new shipment of coatings had arrived and paint samples need to be pulled. Mr. Guest stated that he would label the samples for shipment to the lab after lunch.

Fabrication on assembled components of the OBG's and Towers are not complete. Outstanding weld repairs have not been performed. Coating damage requiring re-blast is expected.



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Summary of Conversations:

There were no relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh (China) +8613472477571, who represents the Office of Structural Materials for your project.

Inspected By:	Jordan,Don	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
